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CHAS HUDE PATENT

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USA

Claims

1. Mixer tap with a vertically movable spout (2) and an adjusting means (4), characterised in that the spout (2) can be moved from a lowered or a hidden position and retracted by means of a piston rod of a hydraulic cylinder (6), the movements of the piston rod being controlled by the pressure from the water supply, and the water supply to the spout (2) is not opened until the piston rod is in its most extended, preferably upper most position.
2. Mixer tap according to claim 1, characterised in that a downward movement of the piston rod is activated by depressing the end of the spout (2) and releasing a snap lock (18).
3. Mixer tap according to claim 1 ~~or 2~~, characterised in that the downward movement of the piston rod is activated by depressing and keeping the adjusting means (4') down until the spout (2) has adopted its lowered position.
4. Mixer tap according to claim 1 ~~or 3~~, characterised in that the upward and downward movement of the spout (2) is activated alternately by momentarily depressing adjusting means (4').
5. Mixer tap according to claim 1, characterised in that a toothed rack (28) is inserted between the piston rod of the hydraulic cylinder (27) and the spout (22), said toothed rack meshing with a gear wheel (29) connected with a second wheel, preferably a gear wheel, driving a belt (30), preferably a toothed belt, connected to the spout (22).
6. Mixer tap according to claim 5, characterised in that the toothed belt (30) communicates with the spout (22) via a slide (31) which may slide along a track (33).

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7. Mixer tap according to claim 5 or 6, characterised in that the associated hydraulic control circuit is adapted such that water is not turned on until the spout (22) is in its uppermost position.

5 8. Mixer tap according to claim 7, characterised in that a slide valve (36) activated by the piston rod is provided to detect when the spout (22) is in its uppermost position.

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